

Zhihua Wang

List of Publications by Year in descending order

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57
papers

3,141
citations

136950

32
h-index

155660

55
g-index

57
all docs

57
docs citations

57
times ranked

3517
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Porous ZnO Polygonal Nanoflakes: Synthesis, Use in High-Sensitivity NO ₂ Gas Sensor, and Proposed Mechanism of Gas Sensing. <i>Journal of Physical Chemistry C</i> , 2011, 115, 12763-12773. | 3.1 | 350 |
| 2 | One-Step Synthesis of Co-Doped In ₂ O ₃ Nanorods for High Response of Formaldehyde Sensor at Low Temperature. <i>ACS Sensors</i> , 2018, 3, 468-475. | 7.8 | 199 |
| 3 | Highly Sensitive and Selective Ethanol Sensor Fabricated with In-Doped 3DOM ZnO. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5466-5474. | 8.0 | 179 |
| 4 | Bifunctional Bi ₂ O ₃ /MIL-100(Fe) composites toward photocatalytic Cr(VI) sequestration and activation of persulfate for bisphenol A degradation. <i>Science of the Total Environment</i> , 2021, 752, 141901. | 8.0 | 175 |
| 5 | Construction of direct Z-scheme Bi ₂ O ₃ /LiO-66-NH ₂ heterojunction photocatalysts for enhanced degradation of ciprofloxacin: Mechanism insight, pathway analysis and toxicity evaluation. <i>Journal of Hazardous Materials</i> , 2021, 419, 126466. | 12.4 | 169 |
| 6 | Highly sensitive NO ₂ gas sensor of ppb-level detection based on In ₂ O ₃ nanobricks at low temperature. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 655-663. | 7.8 | 151 |
| 7 | Manipulating the Defect Structure (V _O) of In ₂ O ₃ Nanoparticles for Enhancement of Formaldehyde Detection. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 933-942. | 8.0 | 146 |
| 8 | Controllable Defect Redistribution of ZnO Nanopyramids with Exposed {101̄...1} Facets for Enhanced Gas Sensing Performance. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 308-317. | 8.0 | 108 |
| 9 | Atomically dispersed Pt (II) on WO ₃ for highly selective sensing and catalytic oxidation of triethylamine. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117809. | 20.2 | 103 |
| 10 | Synthesis, characterization and alcohol-sensing properties of rare earth doped In ₂ O ₃ hollow spheres. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 1180-1188. | 7.8 | 93 |
| 11 | Pd loading induced excellent NO ₂ gas sensing of 3DOM In ₂ O ₃ at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2018, 263, 218-228. | 7.8 | 90 |
| 12 | Electron compensation in p-type 3DOM NiO by Sn doping for enhanced formaldehyde sensing performance. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3254-3263. | 5.5 | 88 |
| 13 | Atomically Dispersed Au on In ₂ O ₃ Nanosheets for Highly Sensitive and Selective Detection of Formaldehyde. <i>ACS Sensors</i> , 2020, 5, 2611-2619. | 7.8 | 67 |
| 14 | Î±-Fe ₂ O ₃ /NiO heterojunction nanorods with enhanced gas sensing performance for acetone. <i>Sensors and Actuators B: Chemical</i> , 2020, 318, 128191. | 7.8 | 65 |
| 15 | Mg-Al carbonate layered double hydroxides as a novel catalyst of luminol chemiluminescence. <i>Chemical Communications</i> , 2011, 47, 5479-5481. | 4.1 | 62 |
| 16 | Structural and electronic engineering of 3DOM WO ₃ by alkali metal doping for improved NO ₂ sensing performance. <i>Nanoscale</i> , 2016, 8, 10622-10631. | 5.6 | 62 |
| 17 | Carbonate interlayered hydrotalcites-enhanced peroxytrous acid chemiluminescence for high selectivity sensing of ascorbic acid. <i>Analyst</i> , 2012, 137, 1876. | 3.5 | 60 |
| 18 | Sensitization of Pd loading for remarkably enhanced hydrogen sensing performance of 3DOM WO ₃ . <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 577-587. | 7.8 | 58 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Photocatalytic degradation of DOM in urban stormwater runoff with TiO ₂ nanoparticles under UV light irradiation: EEM-PARAFAC analysis and influence of co-existing inorganic ions. <i>Environmental Pollution</i> , 2018, 243, 177-188. | 7.5 | 53 |
| 20 | Orderly Arranged Fluorescence Dyes as a Highly Efficient Chemiluminescence Resonance Energy Transfer Probe for Peroxynitrite. <i>Analytical Chemistry</i> , 2015, 87, 3412-3418. | 6.5 | 51 |
| 21 | Assay of multiplex proteins from cell metabolism based on tunable aptamer and microchip electrophoresis. <i>Biosensors and Bioelectronics</i> , 2015, 63, 105-111. | 10.1 | 47 |
| 22 | Highly Stable and Conductive Multicationic Poly(biphenyl indole) with Extender Side Chains for Anion Exchange Membrane Fuel Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 6154-6165. | 5.1 | 47 |
| 23 | Humidity-Sensing Performance of 3DOM WO ₃ with Controllable Structural Modification. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3776-3783. | 8.0 | 45 |
| 24 | Effects of rare earth element doping on the ethanol gas-sensing performance of three-dimensionally ordered macroporous In ₂ O ₃ . <i>RSC Advances</i> , 2016, 6, 45085-45092. | 3.6 | 44 |
| 25 | The effects of Au species and surfactant on the catalytic reduction of 4-nitrophenol by Au@SiO ₂ . <i>Journal of Materials Chemistry A</i> , 2014, 2, 20374-20381. | 10.3 | 41 |
| 26 | Detection of hydrogen peroxide in rainwater based on Mg-Al-carbonate layered double hydroxides-catalyzed luminol chemiluminescence. <i>Analyst</i> , 2011, 136, 4986. | 3.5 | 37 |
| 27 | Chemiluminescence flow biosensor for glucose using Mg-Al carbonate layered double hydroxides as catalysts and buffer solutions. <i>Biosensors and Bioelectronics</i> , 2012, 38, 284-288. | 10.1 | 36 |
| 28 | Universal Chemiluminescence Flow-Through Device Based on Directed Self-Assembly of Solid-State Organic Chromophores on Layered Double Hydroxide Matrix. <i>Analytical Chemistry</i> , 2013, 85, 2436-2442. | 6.5 | 36 |
| 29 | Enhanced acetone sensing performance of Au nanoparticle modified porous tube-like ZnO derived from rod-like ZIF-L. <i>Dalton Transactions</i> , 2018, 47, 9014-9020. | 3.3 | 35 |
| 30 | Multifunctional sandwich-like mesoporous silica@Fe ₃ O ₄ @graphene oxide nanocomposites for removal of methylene blue from water. <i>RSC Advances</i> , 2015, 5, 39964-39972. | 3.6 | 34 |
| 31 | Elastic and durable multi-cation crosslinked anion exchange membrane based on poly(styrene- <i>b</i> -(ethylene-co-butylene)- <i>b</i> -styrene). <i>Journal of Polymer Science</i> , 2020, 58, 2181-2196. | 3.8 | 34 |
| 32 | Facile preparation of rod-like Au/In ₂ O ₃ nanocomposites exhibiting high response to CO at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 516-524. | 7.8 | 33 |
| 33 | Cobalt oxide nanorods with special pore structure for enhanced ethanol sensing performance. <i>Journal of Colloid and Interface Science</i> , 2018, 531, 320-330. | 9.4 | 32 |
| 34 | Selective Catalytic Oxidation of Methane to Methanol in Aqueous Medium over Copper Cations Promoted by Atomically Dispersed Rhodium on TiO ₂ . <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202201540. | 13.8 | 29 |
| 35 | Au-modified three-dimensionally ordered macroporous ZnO:In for high-performance ethanol sensors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2812-2819. | 5.5 | 28 |
| 36 | Metal-organic framework derived Au@ZnO yolk-shell nanostructures and their highly sensitive detection of acetone. <i>RSC Advances</i> , 2016, 6, 29727-29733. | 3.6 | 26 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Evolution of biogenic amine concentrations in foods through their induced chemiluminescence inactivation of layered double hydroxide nanosheet colloids. <i>Biosensors and Bioelectronics</i> , 2014, 60, 237-243. | 10.1 | 23 |
| 38 | Fine-tuning the structure of cubic indium oxide and their ethanol-sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 669-678. | 7.8 | 23 |
| 39 | Atomically dispersed Pt on 3DOM WO ₃ promoted with cobalt and nickel oxides for highly selective and highly sensitive detection of xylene. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126772. | 7.8 | 21 |
| 40 | High specific surface area LaMO ₃ (M = Co, Mn) hollow spheres: synthesis, characterization and catalytic properties in methane combustion. <i>RSC Advances</i> , 2014, 4, 58699-58707. | 3.6 | 15 |
| 41 | Insights into the effect of Au particle size on triethylamine sensing properties based on a Au@ZnO nanoflower sensor. <i>Journal of Materials Chemistry C</i> , 2022, 10, 3318-3328. | 5.5 | 15 |
| 42 | Investigation on polyvinyl-alcohol-based rapidly gelling hydrogels for containment of hazardous chemicals. <i>RSC Advances</i> , 2016, 6, 71425-71430. | 3.6 | 14 |
| 43 | Mass Spectrometry Genotyping of Human Papillomavirus Based on High-Efficiency Selective Enrichment of Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41178-41184. | 8.0 | 14 |
| 44 | Atomically Dispersed Pt on Three-Dimensional Ordered Macroporous SnO ₂ for Highly Sensitive and Highly Selective Detection of Triethylamine at a Low Working Temperature. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 13440-13449. | 8.0 | 14 |
| 45 | Facile synthesis of In ₂ O ₃ nanoparticles with high response to formaldehyde at low temperature. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 1570-1580. | 2.1 | 13 |
| 46 | The important role of quinic acid in the formation of phenolic compounds from pyrolysis of chlorogenic acid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 114, 1231-1238. | 3.6 | 11 |
| 47 | Luminol chemiluminescence actuated by modified natural sepiolite material and its analytical application. <i>Analytical Methods</i> , 2015, 7, 2779-2785. | 2.7 | 11 |
| 48 | Three-dimensional ordered macroporous In ₂ O ₃ -supported Au for high-performance ethanol sensing. <i>RSC Advances</i> , 2015, 5, 99018-99022. | 3.6 | 9 |
| 49 | Competitive adsorption on gold nanoparticles for human papillomavirus 16 L1 protein detection by LDI-MS. <i>Analyst</i> , 2019, 144, 6641-6646. | 3.5 | 9 |
| 50 | Biomimetic synthesis of calcium-strontium apatite hollow nanospheres. <i>Science China Chemistry</i> , 2010, 53, 1723-1727. | 8.2 | 7 |
| 51 | Alcohol Sensing Properties of Er-Doped In ₂ O ₃ Hollow Spheres. <i>Integrated Ferroelectrics</i> , 2012, 138, 117-122. | 0.7 | 6 |
| 52 | Functionalization of Flower-Like ZnO Nanostructures With Au@CuO Nanoparticles for Detection of Ethanol. <i>IEEE Sensors Journal</i> , 2014, 14, 1797-1804. | 4.7 | 5 |
| 53 | Humidity-Independent, Highly Sensitive and Selective NO ₂ Sensor Based on In ₂ O ₃ Nanoflowers Decorated With Graphite Nanoflakes. <i>IEEE Sensors Journal</i> , 2022, 22, 14753-14761. | 4.7 | 5 |
| 54 | Determination of cadmium in paint samples by graphite furnace atomic absorption spectrometry with optical temperature control. <i>Talanta</i> , 2007, 72, 1723-1727. | 5.5 | 4 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Enantiomeric Separation of Two Antiparkinsonian Drugs by Electrokinetic Chromatography Using Dextran Sulfate. <i>Chromatographia</i> , 2009, 70, 817-824. | 1.3 | 4 |
| 56 | Selective Catalytic Oxidation of Methane to Methanol in Aqueous Medium over Copper Cations Promoted by Atomically Dispersed Rhodium on TiO ₂ . <i>Angewandte Chemie</i> , 0, , . | 2.0 | 3 |
| 57 | Oxidative treatment of fentanyl compounds in water by sodium bromate combined with sodium sulphite. <i>Water Science and Technology</i> , 2015, 72, 38-44. | 2.5 | 2 |